Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-III Examination May 2012

Subject code: 132802

Subject Name: Elements of Textile Technology &Textile Processing

Date: 09/05/2012 **Time: 02.30 pm – 05.00pm**

Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain any one ginning machine in detail.	**07**
	(b)	Draw neat sketch of card and explain its passage in detail.	**07**
Q.2	**(a)**	Give a complete sequence of cotton processing in a dye house. Enlist pretreatments necessary for improving absorbency, whiteness and lustre.	**07**
	(b)	What is meant by Dyeing? Give a difference between dyeing and printing.	**07**
		OR	
	(b)	What do you mean by Doubling and Reeling? Explain doubling process with neat sketch.	**07**
Q.3	**(a)**	What are the objects of comber? Describe the combing process with neat sketch.	**07**
	(b)	Draw only the diagram of Speed frame and Ring frame with appropriate labeling.	**07**
		OR	
Q.3	**(a)**	What are the objects of Sizing? And explain the ingredients used in sizing paste.	**07**
	(b)	Explain the Sectional beam warping machine with diagram.	**07**
Q.4	**(a)**	State objects of Winding. Explain any one winding machine with diagram.	**07**
	(b)	Describe different kinds of defects in fabric.	**07**
		OR	
Q.4	**(a)**	Plot the following design on point paper. (i) Sateen (ii) 2/2 Twill (iii) 3/1 Twill	**07**
	(b)	Explain the primary motions on plain power loom.	**07**
Q.5	**(a)**	Define the following terminology w.r.t Dyeing: (i) Percentage shade (ii) Material to liquor ratio (iii) Level dyeing (iv) Reproducibility	**07**
	(b)	Describe in brief the purpose of finishing to textiles. Enlist some finishes and describe any two in detail.	**07**
		OR	
Q.5	**(a)**	Give difference between style of printing and method of printing. Enlist different styles and methods of printing.	**07**
	(b)	Give detail classification of Dyes. Describe some important properties of Direct, Azoic and Vat dyes.	**07**

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